

AMENDMENTS TO THE CLAIMS

The following is a complete, marked-up listing of revised claims with a status identifier in parenthesis, underlined text indicating insertions, and strike through and/or double-bracketed text indicating deletions.

LISTING OF CLAIMS

1. (Currently Amended) A method of aligning a plurality of physical channels, comprising:

aligning ~~at least two~~ first and second uplink physical channels based on a timing offset[[,]]; and

transmitting said ~~at least two~~ first and second channels ~~transmitted~~ over an uplink at a time instant different than that of a third uplink physical channel, such that subframes of said first and second channels transmitted in the uplink do not overlap with uplink transmission of a subframe of said third channel.

2. (Currently Amended) The method of claim 1, wherein said aligning step further includes synchronizing subframe boundaries of said subframes of said ~~at least two~~ first and second uplink physical channels so that said subframes are transmitted in the uplink at [[the]]a same time instant.

3. (Cancelled)

4. (Currently Amended) The method of claim 1, wherein

said ~~at least two~~ first and second physical channels include a control channel configured to support enhanced uplink (EU) services and a data channel configured to support enhanced uplink (EU) services, and

said third physical channel is an uplink control channel configured to support high speed downlink packet access (HSPDA) services.

5. (Previously Presented) The method of claim 4, wherein said timing offset prevents said control channel configured to support enhanced uplink (EU) services from being transmitted in the uplink at the same time as said uplink control channel configured to support high speed downlink packet access (HSPDA) services.

6. (Original) The method of claim 1, wherein said timing offset is a timing offset to align subframes of a shared control channel (SCCH) with a start of a plurality of subframes of a common control channel that is used as a timing reference for all physical channels received in the downlink or physical channels to be transmitted in the uplink.

7. (Original) The method of claim 6, wherein the SCCH is configured to provide control signaling in the downlink to support enhanced uplink (EU) services.

8. (Currently Amended) A method of multiplexing a plurality of physical channels for uplink transmission, comprising:

aligning ~~at least two~~ first and second physical channels based on a timing offset;

~~so that~~ transmitting said ~~at least two~~ first and second channels ~~are transmitted~~ in the uplink at a time instant different than a time of uplink transmission for a third physical channel, such

that subframes of said first and second channels transmitted in the uplink do not overlap with uplink transmission of a subframe of said third channel;[[,]] and

code multiplexing said ~~at least two~~ first and second physical channels with additional physical channels other than said third physical channel at said different time instant to generate a code-multiplexed signal to be used for uplink transmission.

9. (Currently Amended) The method of claim 8, wherein said aligning step includes synchronizing subframe boundaries of subframes of said ~~at least two~~ first and second uplink physical channels so that said subframes are transmitted in the uplink at the same time instant.

10. (Cancelled)

11. (Currently Amended Presented) The method of claim 8, wherein
said ~~at least two~~ first and second physical channels include a control channel configured to support enhanced uplink (EU) services and a data channel configured to support enhanced uplink (EU) services, and

said third physical channel is an uplink control channel configured to support high speed downlink packet access (HSPDA) services.

12. (Previously Presented) The method of claim 11, wherein said timing offset prevents said control channel configured to support enhanced uplink (EU) services from being transmitted on the uplink at the same time as said uplink control channel configured to support high speed downlink packet access (HSPDA) services.

13. (Original) The method of claim 8, wherein said timing offset aligns a subframe of a shared control channel (SCCH) with a start of a plurality of subframes of a common control channel that is used as a timing reference for all the physical channels received in the downlink or physical channels to be transmitted in the uplink.

14. (Original) The method of claim 13, wherein the SCCH is configured to provide control signaling in the downlink to support enhanced uplink (EU) services.

15. (Currently Amended) A method for scheduling transmission of a plurality of physical channels in the uplink, comprising:

assigning timing offset information to a user for aligning ~~at least two~~ first and second uplink physical channels; and

~~to be transmitted~~ transmitting said first and second channels in the uplink at a time instant different than a time of uplink transmission for a third uplink physical channel, such that subframes of said first and second channels transmitted in the uplink do not overlap with uplink transmission of a subframe of said third channel.

16. (Currently Amended) The method of claim 15, wherein
said ~~at least two~~ first and second physical channels include a control channel configured to support enhanced uplink (EU) services and a data channel configured to support enhanced uplink (EU) services, and

said third physical channel is an uplink control channel configured to support high speed downlink packet access (HSPDA) services.

17. (Previously Presented) The method of claim 16, wherein said timing offset prevents said control channel configured to support enhanced uplink (EU) services from being transmitted in the uplink at the same time as said uplink control channel configured to support high speed downlink packet access (HSPDA) services.

18. (Original) The method of claim 15, wherein said timing offset aligns a subframe of a shared control channel (SCCH) with a start of a plurality of subframes of a common control channel that is used as a timing reference for all the physical channels received in the downlink or physical channels to be transmitted in the uplink.

19. (Original) The method of claim 18, wherein the SCCH is configured to provide control signaling in the downlink to support enhanced uplink (EU) services.

20. (Currently Amended) A method of avoiding an increase in peak-to-average power ratio if multiplexing a plurality of physical channels for uplink transmission, comprising:

aligning ~~at least two~~ first and second physical channels based on a timing offset; ~~so that~~
multiplexing said at least two first and second channels are multiplexed; and
~~to be transmitted~~ transmitting said first and second channels in the uplink at a time instant different than a time of uplink transmission for a third physical channel, such that subframes of said first and second channels transmitted in the uplink do not overlap with uplink transmission of a subframe of said third channel.